

Public concern programming will include such issues as;

Care for the elderly, and their plight in todays society. Minorities and other peoples including the less fortunate and homeless will also be addressed.

Education not only of children but all ages... health education, financial, plus the lack of reading and writing skills in many adults.

The Westerville Town Meeting which addresses the concerns of the community, would be broadcast in a half hour format. The communications Dept. of Otterbein University, Westerville, OH will produce this program.

Provide a "Viewpoint" for the many organizations in Central Ohio... A 60 second recorded message that would be aired in each daypart, the concerns and achievements of these groups. ae: Red Cross, American Cancer Society, Heart Fund, also including, Children's Hospital, The Symphony, Ballet, Art Museum, etc.

Section IV -B

1.  
Ardeth S. Frizzell, President and General Manager, will be active as a full time manager (a minimum of 40 hours per week). She will oversee the day to day operation of the radio station. The Sales Manager and Program Director will answer directly to her. She will also oversee all the business activities of the radio station.

2.

(a) Minority Status -- None

(b) 164 Grenner Road. Columbus. OH 43228 which is within the area



Section V-B - FM BROADCAST ENGINEERING DATA

FOR COMMISSION USE ONLY

File No. \_\_\_\_\_  
 ASB Referral Date \_\_\_\_\_  
 Referred by \_\_\_\_\_

Name of Applicant

ASF Broadcasting Corp.

Call letters (if issued)

Is this application being filed in response to a window? ☒ Yes ☐ No

If Yes, specify closing date: 12-30-1991

Purpose of Application: (check appropriate boxes)

☒ Construct a new (main) facility

☐ Construct a new auxiliary facility

☐ Modify existing construction permit for main facility

☐ Modify existing construction permit for auxiliary facility

☐ Modify licensed main facility

☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

☐ Antenna supporting-structure height

☐ Effective radiated power

☐ Antenna height above average terrain

☐ Frequency

☐ Antenna location

☐ Class

☐ Main Studio location

☐ Other (Summarize briefly)

File Number(s) \_\_\_\_\_

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
280	Westerville	Franklin	OH

Class (check only one box below)

☒ A ☐ B1 ☐ B ☐ C3  
☐ C2 ☐ C1 ☐ C

2 Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark. 1.5 km SE of Sunbury on St.Rd.37, Delaware Co., OH. site is 14 km NNE of Westerville.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	40°	14'	04"	Longitude	82°	50'	20"
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3 Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☒ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both. former WBBY (FM)

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

DNA

## SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates?

☐ Yes ☒ No

If Yes, list old coordinates.

Latitude	°	'	"	Longitude	°	'	"
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5. Has the FAA been notified of the proposed construction?

☐ Yes ☒ No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No.

No change in EXISTING

Date \_\_\_\_\_ Office where filed \_\_\_\_\_

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

Landing Area	Distance (km)	Bearing (degrees True)
(a) <u>Pine Lake (PVT)</u>	<u>6.4</u>	<u>270</u>
(b) _____	_____	_____

7. (a) Elevation: (to the nearest meter)

(1) of site above mean sea level: 311 meters(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 124 meters(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 435 meters

(b) Height of radiation center: (to the nearest meter) H - Horizontal; V - Vertical

(1) above ground 110 meters (H)110 meters (V)(2) above mean sea level [(aX1) + (bX1)] 421 meters (H)421 meters (V)(3) above average terrain 109 meters (H)109 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.  
E-3

9. Effective Radiated Power:

(a) ERP in the horizontal plane 2.5 kw (H-) 2.5 kw (V-)

(b) Is beam tilt proposed?

☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.  
DNA

\_\_\_\_\_ kw (H-) \_\_\_\_\_ kw (V-)

-Polarization

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.  
E-5

16. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
E-1

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 616 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km) and population (latest census) within the predicted 1 mV/m contour.

Area 1,815 sq. km.

Population 322,927

18. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
DNA

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313)*

Source of terrain data: *(check only one box below)*

☒ Linearly interpolated 80-second database

☐ 7.5 minute topographic map

(Source: NGDC-TPG-0050)

☐ Other *(briefly summarize)*

10. Is a directional antenna proposed?

☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.318, including plot(s) and tabulations of the relative field.

Exhibit No.

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

☒ Yes ☐ No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.18 mV/m service.

Exhibit No.

12. Will the main studio be within the protected 3.18 mV/m field strength contour of this proposal?

☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

☐ Yes ☒ No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

☒ Yes ☐ No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.

Exhibit No.  
Disc.

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.  
DNA

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.  
DNA

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 8 to 16 km (meters)	Predicted Distances	
		To the 316 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
212	148.1	15.8	27.6
0	96	12.6	22.8
45	68	10.8	19.2
90	76.4	11.3	20.3
135	90.7	12.3	22.1
180	116.5	13.9	24.9
225	144.7	15.6	27.3
270	143.1	15.5	27.1
315	136.7	15.0	26.6

\*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement/See 47 C.F.R. Section 1.1301 et seq.)

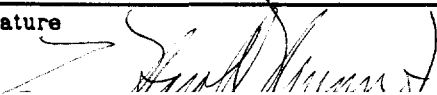
Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? ☐ Yes ☒ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311. Exhibit No.

If No, explain briefly why not. This application meets the requirements of OST Bulletin No. 65 and is categorically excluded from environmental processing pursuant to Section 1.1306 of the Commission's Rules, because it does not (1) involve a site location specified under Section 1.1307(a)(1)-(5); (2) involve high intensity lighting under Section 1.1307(a)(6); or, (3) result in human exposure to radio frequency radiation in excess of the applicable standards specified in Section 1.1307(b) of the Commission's Rules.

**CERTIFICATION**

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed)	Relationship to Applicant (e.g., Consulting Engineer)
E. Harold Munn, Jr. & Associates, Inc.	Technical Consultant
Signature 	Address (Include ZIP Code) Box 220 Coldwater, MI. 49036

# ENGINEERING REPORT

NEW FM BROADCAST STATION

CHANNEL 280(A)

WESTERVILLE, OHIO

December, 1991

PREPARED BY:

E. HAROLD MUNN, JR. &  
ASSOCIATES, INC.

ONE HUNDRED AIRPORT ROAD

COLDWATER, MICHIGAN 49036

(517) 278-7339

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E. HAROLD MUNN, JR.  
& ASSOCIATES, INC.  
Broadcast Engineering Consultants  
Coldwater, Michigan

CERTIFICATION OF CONSULTANT

The firm of E. Harold Munn, Jr. & Associates, Inc., Broadcast Engineering Consultants, with offices at 100 Airport Drive, Coldwater, Michigan, has been retained for the purpose of preparing the technical data forming this report.


The report has been prepared by properly trained electronics specialists under the direction of the undersigned whose qualifications are a matter of record before the Federal Communications Commission.

I declare under penalty of perjury that the contents of this report are true and accurate to the best of my knowledge and belief.

E. HAROLD MUNN, JR. & ASSOCIATES, INC.

December 23, 1991

By

  
E. Harold Munn, Jr., President

100 Airport Drive, Box 220  
Coldwater, Michigan 49036

(517) 278-7339

## DISCUSSION

This firm was retained to prepare the required engineering report in support of an application for a new FM Broadcast Station serving the area of Westerville, Ohio. FM Channel 280, 103.9 MHz, is listed in the Table of Allotments for use at Westerville, and this application proposes the use of this channel.

This allotment was made prior to October 2, 1989, therefore it is appropriate that the spacing provisions of 47 C.F.R. Section 73.213 be employed in this application. The effective radiated power has been reduced to provide service equivalent to that obtained using an ERP of 3 kW at an antenna height above terrain of 100 meters.

The proposed service contours have been calculated in accordance with the Rules, and the data obtained has been tabulated and plotted in this report. The plotted contours are found as Exhibit E-1 of this report. This exhibit shows the 3.16 mV/m contour which serves the community of license, and the overall service which is provided by the 1.0 mV/m contour of the facility.

### ENVIRONMENTAL ASSESSMENT

The FM Broadcast facility proposed in the referenced application will not result in human exposure to radiofrequency radiation in excess of the applicable safety standards specified in Section 1.1307(b) of the Commission's rules.

RADIATION PROTECTION: This proposal has been evaluated for compliance with FCC guidelines concerning human exposure to radiofrequency radiation. The standards employed are detailed in OST Bulletin No. 65, October, 1985.

Table 1 of Appendix B was employed for this study concerning FM broadcast radiation protection.

For the effective radiated power and type of antenna proposed, the minimum antenna radiation center above ground is specified as 13 meters.

This application proposes an antenna height above ground of at least 110 meters. Therefore, full compliance with the guidelines is attained by the instant application.

In addition to the protection afforded by the proposed antenna height above ground, the facility will be properly marked

EXHIBIT "A"

The transmitting facility is so located that there is some resident population within the predicted "blanketing" contour, as defined in 47 C.F.R. 73.318. The applicant agrees that full compliance with the procedures and requirements of 73.318(b)(d) will be attained.

The applicant will take such engineering steps as may be required to satisfy complaints of "blanketing" including, but not limited to, the installation of filters, traps, or other devices to satisfy said complaints within the specified time period.

This applicant accepts full responsibility for the elimination of any objectionable interference.

The proposed transmitter is located within 10 km of existing or proposed FM and TV transmitters. This applicant does not believe that there would be any adverse effects on the operation of any other facility as a result of a grant of this application. The frequency separations, and the physical distance between the facilities should preclude any harmful effects.

In the event such harmful effects are noted, including but not limited to receiver-induced or other types of modulation, the applicant accepts full responsibility for the elimination of any objectionable interference to facilities in existence or authorized or to radio receivers in use

EXHIBIT E-1 PROPOSED SERVICE

E. HAROLD MUNN, JR.  
& ASSOCIATES, INC.  
Broadcast Engineering Consultants  
Coldwater, Michigan

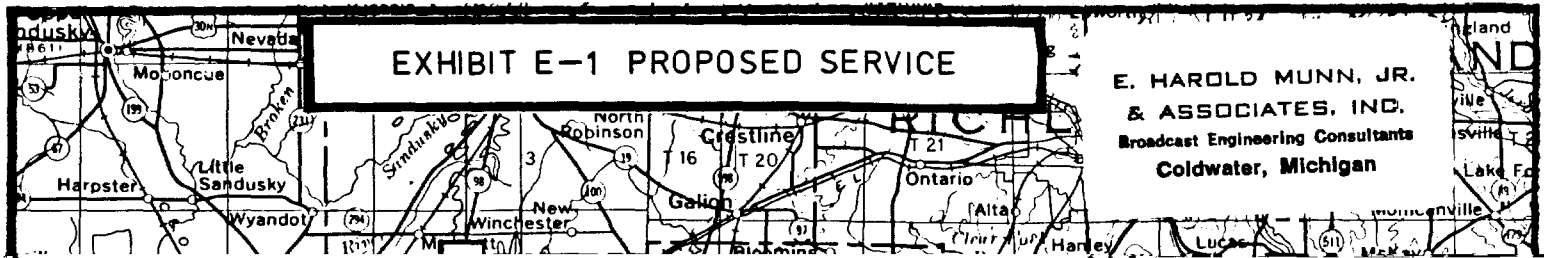


EXHIBIT E-1A CITY COVERAGE DETAIL

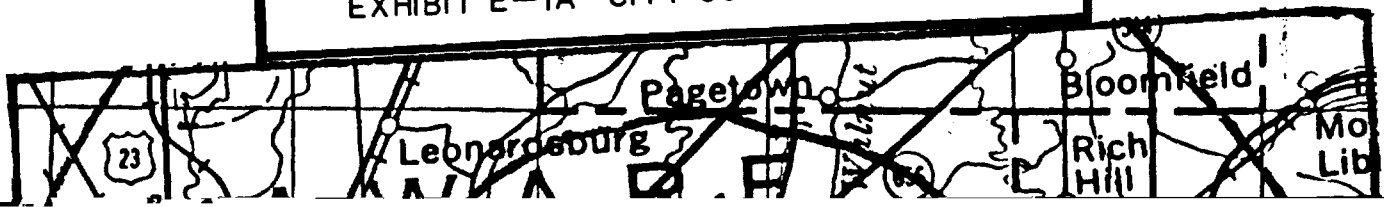


EXHIBIT E-2

ANALYSIS OF TOPOGRAPHIC DATA EMPLOYED

The topographic data employed in this application is based on the National Geophysical Center thirty second point topography data base (TPG-0050).

The averages calculated include 130 points between 3 and 16 km.

The transmitter site elevation was determined by means of 7.5' series topographic mapping. The site coordinates were also developed from the 7.5' series map.

A portion of that map is included in this report as Exhibit E-5.

A detailed topographic analysis using 7.5' topographic maps will be supplied to the Commission if requested.

E. HAROLD MUNN, JR.  
& ASSOCIATES, INC.  
Broadcast Engineering Consultants  
Coldwater, Michigan

EXHIBIT E-3

VERTICAL PLAN

Single, guyed steel tower with FM  
antenna side-mounted near top. NOTE:  
~~tower is EXISTING - no height change~~

SITE LOCATION

NT 100 141 04"

EXHIBIT E-4

PROPOSED FM OPERATING SPECIFICATIONS

Applicant: ASF Broadcasting Corp.

Frequency: 103.9 mHz Channel: 280(A) ERP: 2.5 kW HAAT: 109 (meters)

Transmitter Location: 1.5 km SE of Sunbury on St. Rd. 37, 14 km N-NE of  
Westerville, Ohio (Westerville in Franklin Co.)

County: Delaware

State: Ohio

Site Coordinates: NL 40°14'04"; WL 82°50'20"

Site Elevation: 311 meters

Proposed Operation:

Effective Radiated Power: 2.5 (kW)H 2.5 kW(V)

Height of Antenna Radiation Center Above:

	<u>Average Terrain</u>	<u>Mean Sea Level</u>	<u>Gnd.</u>
H	109 meters	421 m	110 m
V	109 meters	421 m	110 m

Overall Height of Structure Above Ground: 124 meters

Overall Height of Structure Above Mean Sea Level: 435 meters

PLATE NO. 1:62,500

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

EXHIBIT E-5

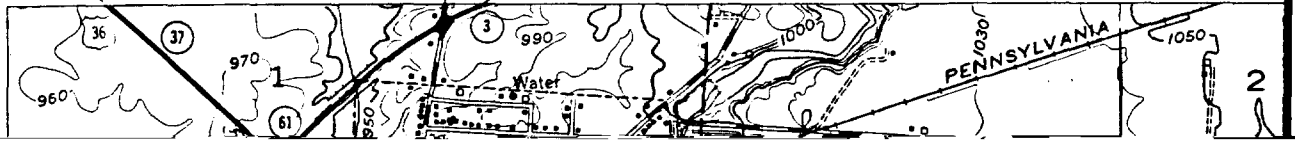
82°52'30"  
40°15'

STARK CORNERS 4.4 MI.  
DELAWARE 12 MI.  
BERKSHIRE 2.3 MI. R. 17 W. 61

36 37 3 990 1000 1030 1050

MOUNT VERNON 24 MI.  
CONDIT 3.5 MI.  
1900 000 FEET (SOUTH)

R. 16 W. 50'



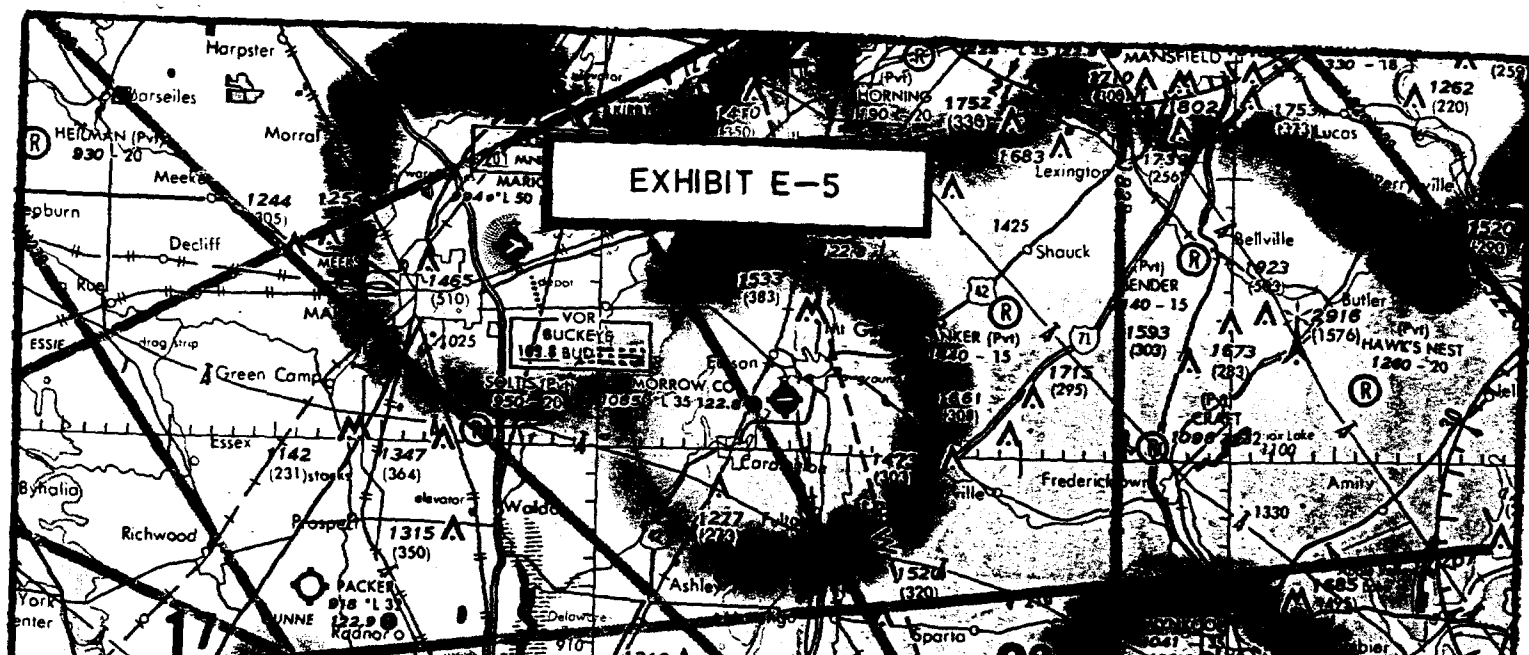


EXHIBIT E-6

TABULATION OF POPULATION AND AREA

<u>CONTOUR</u>	<u>POPULATION</u>	<u>AREA</u>
1.0 mV/m	322,927	1,815 km <sup>2</sup>

The population within the 1.0 mV/m contour was determined by superimposing the desired contour onto U.S. Standard Civil Division maps of the 1980 Census, and assuming uniform population distribution within each minor civil division. The data was computer generated. The service area calculation was determined by measurement of the contour map exhibit using a calibrated polar planimeter. The population